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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/790,054	03/02/2004	Ronald Miziolek	13509-1	9817
	10/790,054 03/02/2004 Ronald Miziolek	EXAMINER		
	T SPECK PARKWAY		PHASGE, ARUN S	
	STATE OF THE STATE	PAPER NUMBER		
CANADA			1753	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
3 MO	NTHS	01/16/2007	PAP	ER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary		Application No.	Applicant(s)
		10/790,054	MIZIOLEK, RONALD
		Examiner	Art Unit
		Arun S. Phasge	1753
Period fe	The MAILING DATE of this communication app or Reply	ears on the cover sheet with t	he correspondence address
A SH WHII - Exte after - If NO - Failu Any	IORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE and the may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Diperiod for reply is specified above, the maximum statutory period ware to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICAT 36(a). In no event, however, may a reply will apply and will expire SIX (6) MONTHS cause the application to become ABAND	FION. be timely filed from the mailing date of this communication.
Status			
2a) <u></u>	Responsive to communication(s) filed on This action is FINAL . 2b) This Since this application is in condition for allowant closed in accordance with the practice under Expression 1.	action is non-final. ce except for formal matters,	
Disposit	ion of Claims		
5)	Claim(s) 1-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-27 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or ion Papers The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the d Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the Examiner	election requirement. . pted or b) objected to by the displayers. proving (s) be held in abeyance. proving (s) is required if the drawing (s) is	See 37 CFR 1.85(a). sobjected to. See 37 CFR 1.121(d).
Priority u	ınder 35 U.S.C. § 119		
a)[Acknowledgment is made of a claim for foreign and All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureausee the attached detailed Office action for a list of	have been received. have been received in Applic ty documents have been rece (PCT Rule 17.2(a)).	cation No eived in this National Stage
2) ☐ Notice 3) ☑ Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	4) Interview Summ Paper No(s)/Mai 5) Notice of Inform 6) Other:	I Date

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 13-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Higby et al. (Higby) U.S. Patent 6,264,845.

Highly discloses the claimed method for the removal of arsenic in the form of As (III) ions by electrochemically oxidizing the As(III) ions to As (V) ions, adding Fe (II) ions to the aqueous solution, electrochemically oxidizing the Fe(II) to Fe (III) ions and removing the resulting ferric arsenate from the aqueous solution (see col. 4, lines 41-60). The reference further discloses the use of a electrochemical cell having a ferrous anode (see col. 4, line 42-44). The use of the iron-containing anode would inherently dissolve to form the ferrous ions which would be converted to ferric ions in the area surrounding the anode. The patent further teaches the

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use of non-ferrous anodes (see claim 21). The reference further discloses the removal of particles by a filter (see col. 5, lines 56-67).

Therefore, since the Higby patent teaches each and every limitation, the claims are anticipated.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-12 and 18-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Higby applied as above.

The Higby patent teaches the use of at least three different metals forming anodes which can be a composite anode, including the aluminum and ferrous material (see claim 10).

The patent does not teach the three electrochemical cell claimed. The patent does disclose the use of three different metals as the anodes (see col. 2, lines 61-64). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the disclosure of the Higby patent with the teachings contained therein to provide a cell having only three anodes, because such modification to the number of cells would have been obvious based upon the material being treated.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arun S. Phasge whose telephone number is (571) 272-1345. The examiner can normally be reached on MONDAY-THURSDAY, 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X. Nguyen can be reached on (571) 272-1342. The fax

phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Arun S. Phasge

Primary Examiner

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